

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2006/000395

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.

**H01L 33/00** (2006.01)      **H01L 21/00** (2006.01)      **H01L 27/00** (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI: semiconductor? AND (metal+ (w) +layer?) AND (anneal+ or heat+) AND fabricat+ [and similar terms corresponding to these]

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0104395 A (HAGIMOTO <i>et. al.</i> ) 3 June 2004 Whole document and in particular abstract, Figures, paragraphs [0025]-[0028], [0276]-[0280], [0313]	1-34
X, Y	US 6365429 B (KNEISSL <i>et. al.</i> ) 2 April 2002 Whole document and in particular Figures, col. 10, line 11+	1, 18
Y	US 5405804 A (YABE) 11 April 1995 Whole document and in particular Fig. 5, col. 5, line 6-8	1, 17, 18, 34

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
16 February 2007

Date of mailing of the international search report

26 FEB 2007

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6420242 B (CHEUNG <i>et. al.</i> ) 16 July 2002 Whole document and in particular Fig. 2-5 and col. 4	1, 17, 18, 34
Y	EP 1139409 A (AGERE SYSTEMS GUARDIAN CORPORATION) 4 October 2001 Whole document and in particular paragraphs [0043]-[0045]	1, 17, 18, 34
A	US 2002/0179910 A (SLATER, JR) 5 December 2002 Whole document	1-34
A	US 6573537 B (STEIGERWALD <i>et. al.</i> ) 3 June 2003 Whole document	1-34
A	WO 2005/088743 A (TINGGI TECHNOLOGIES PRIVATE LIMITED) 22 September 2005 Whole document	1-34
Any of the Y documents can be combined with US 6365429.		

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2006/000395

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	2004104395	JP	2004207508	JP	2004228540
		JP	2004235506	JP	2004235581
US	6365429	JP	2000196197	JP	2005079298
		US	6757314	US	2005079298
US	6448102	US	6448102	US	6744800
		US	2004105471		
US	5405804	JP	6310500		
US	6420242	US	6071795		
EP	1139409	JP	2001313390	KR	2001008572
US	2002179910	US	2007001243		
		AU	63916/99	CA	2343416
		CN	1323446	CA	2465228
		EP	1440460	CN	1579008
		US	6803243	EP	1125320
US	6573537	US	2004171204	KR	2005003517
		WO	0016382	MX	PA01002751
		AU	27389/01	US	6909119
		JP	2001237458	US	6909119
		WO	0147039	WO	03038877
WO	2005088743	DE	10213701	EP	1161772
		JP	2002335014	US	6514782
WO	2005088743	EP	1730790		
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					